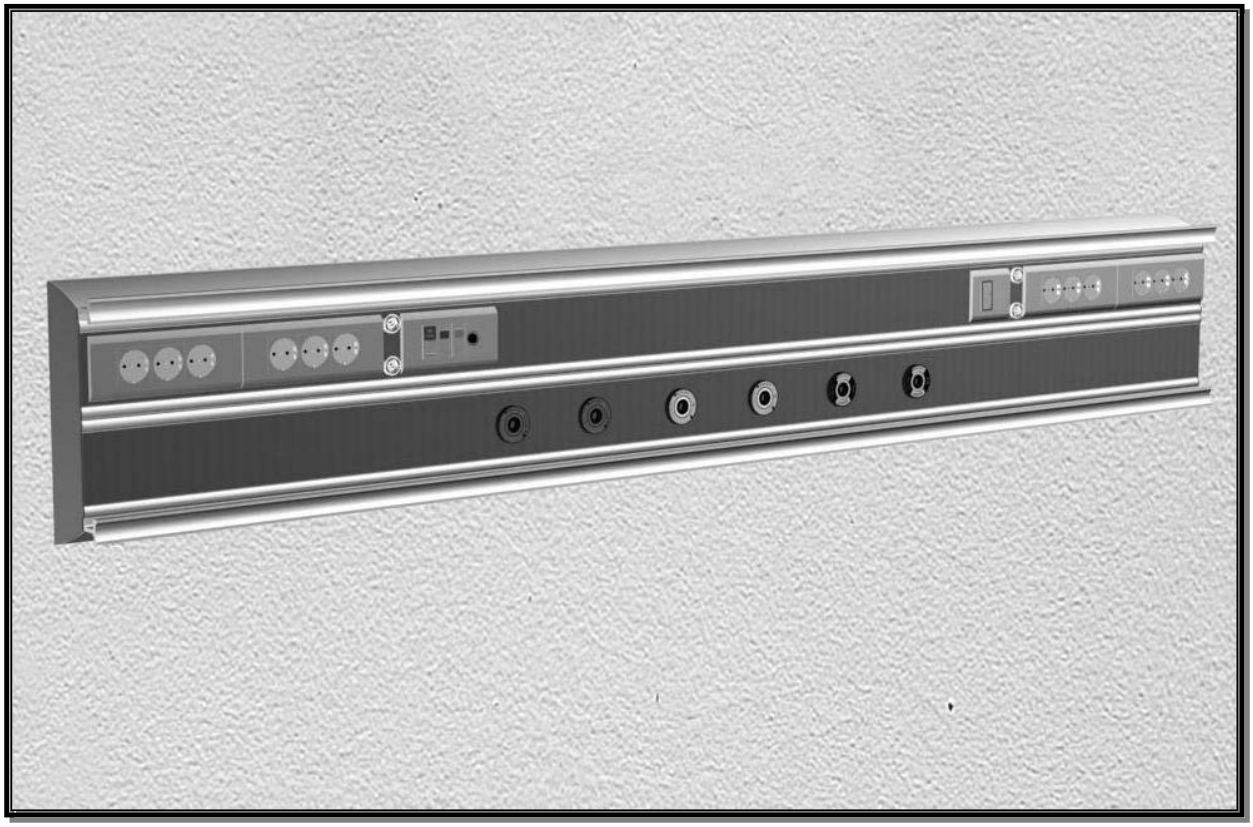
nassetti

CARE

Bedhead Unit



Planning and Installation Instructions

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1. Notes On These Instructions

The preparatory measures described here ensure the safe planning of the main requirements for the installation and operation of CARE bedhead units.

- Our rights to make any technical modifications in order to improve product are reserved.
- Please observe the safety notes in these instructions.
- The contents of these instructions can be altered at any time without warning.
- Where there are translations into foreign languages, the English version of these instructions is binding.

Trademarks:

- CARE is a registered trademark of Nassetti.
- All other trademarks mentioned in these instructions are the sole property of the manufacturers concerned.

1.1. Explanation of Symbols

Symbols are used to alert you on possible operational or installation faults or give you useful tips on how to use the equipment.

IMPORTANT!

The safety symbol alerts you on critical safety information and information necessary to obtain approval.

NOTE!

The note symbol gives you tips and useful information.

2. Safety Instructions

2.1. Positioning Requirements

- The options and the conditions for fixing CARE bedhead units are described in the following sections. The bedhead units must be fixed in consultation with the construction manager during installation procedures.
- The methods described for the fixation, gas and power supply are general recommendations and their implementation is to be planned and designed for each individual case by qualified experts.
- CARE bedhead units are not suitable for use in potentially explosive areas.
- An ambient temperature of 10°C to 40°C must be maintained during operation.
- The relative humidity must not exceed 75%.

2.2. Intended Use

- CARE bedhead units are intended to carry and position medical devices in critical care areas in hospitals, to supply these devices with electricity and medical gases. According to the end-user's requirements, the bedhead units may be equipped with lighting fixtures, which provide indirect illumination at the patient's bed head. In this manner, they provide comfort for both the patient and medical staff, together with an aesthetic appearance complementing the room's general atmosphere.
- CARE bedhead units are suitable for continuous duty.
- CARE bedhead units can be customized with additional fittings for connections to other services like telephone system, nurse call system, intercom system and music broadcast system.

2.3. Instructions for Installation and Operation

Installation, testing and operation of bedhead units must be carried out in accordance with EN 60601-1; EN 737-3, EN60598-1 and in accordance with the manufacturer's instructions.

3. Site Preparation

Following the receipt of the final design drawings approved by the end-user, Nassetti provides the advised support backing necessary for the installation of the bedhead units on the wall. The preparation of the installation site must be made and the necessary services, such as medical gas supply piping and electrical cabling must be brought up to the points as shown on these drawings.

In case the bedhead units are to be installed on a modular partition wall (gypsum board, etc.), necessary structural safety measures should be employed, considering that there will be an equipment load of 25kg/m on the bedhead unit during operation. Local civil engineering rules related to the installation should be taken into account.

4. Modes of Fixation

The bedhead units are installed using one of the possible modes of fixation shown on the installation drawings supplied by Nassetti.

Installation is carried out using suitable types of anchors and screws, depending on the type of the structure of the wall (concrete, perforated brick, etc.). If necessary, suitable backing supports should be prepared according to the drawings supplied by Nassetti.

No fixing materials, such as anchors, screws, threaded rods, etc., are provided by Nassetti, as the types are dependent on the actual structure of the construction onto which the bedhead units will be mounted.

5. Installation of Bedhead Unit

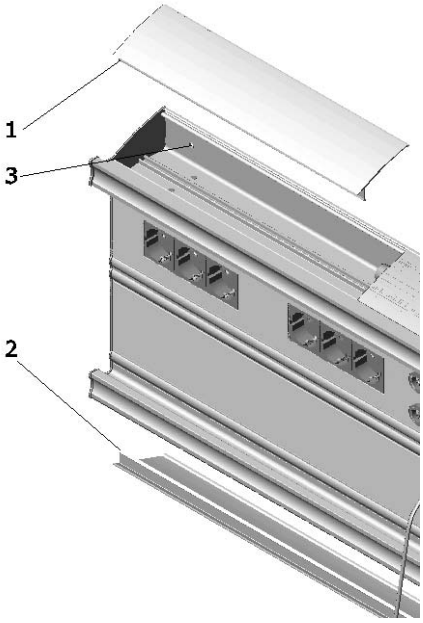
Each bedhead unit is delivered individually packed with care, in order to prevent any scratching or denting on the bedhead units or bending of medical gas pipes during transport. Please store the bedhead units in a clean, dry area, and do not remove packing until the time of installation and until the unit is carried to the room where it will be installed. Avoid stacking units on top of each other if unpacked.

At the time of installation, bring the bedhead unit to the room where it will be installed. Lay the unit on the floor, flat on its back and remove the packing. Be careful not to scratch the unit during unpacking.

The bedhead unit is composed of aluminum profiles. The trunk profile, containing four separate compartments, upon installation on the wall over the head of the bed is completed with one upper and one lower cap, and two front cap aluminum profiles. The lower front cap covers the bottom trunk compartment reserved for the medical gas installation, while the upper front and the upper and lower caps respectively cover the top trunk compartment and the lower and upper compartments that are reserved for high and low voltage electrical installations. In the upper compartment, in addition to the electrical installations, lighting equipment is located and the part of the upper caps where the lighting fixtures are located are made of extruded, clear, acrylic material.

All of the above mentioned caps can be removed easily. Depending on the type of the unit to be installed, proceed according to the instructions given in Section 5.1 or 5.2.

Fig. 1:



Procedure:

- Drill the holes on the wall or on the backing support according to the drawing. If required put the anchors into the wall.
- Check the mounting points (3) from the drawing and then remove the appropriate upper and lower cap (1, 2) of the bedhead unit. Locate the holes drilled in the wall / the stud holes on the backing support.
- Level and align the bedhead unit with the holes, secure to the wall using appropriate fixing screws.
- Complete the connections to the medical gas and electrical services, as described in Sections 6 and 7.
- When all connections are completed, replace the upper and lower cap (1, 2) of the bedhead unit.

The center line of the bedhead unit should be at a height of 1500mm from the finished floor.

6. Installation of The Electrical Supplies

6.1. Specifications for The Mains Electrical Installation/Equi-potential Pin Laying With Strain Relief

The CARE bedhead units are designed for a voltage supply of 230V-240V; 110V-120V units are also available upon special request. The power connections are to be pre-installed from the mains supply up to the bedhead unit, according to the drawings. In addition, the earth connections are to be pre-installed to the terminals of the terminal block.

All electrical cabling inside the bedhead unit is factory installed and color coded. The on site electrical installation for the bedhead unit is the connection of the color coded connectors at the terminal block.

For the equipment requiring uninterrupted supply lines (e.g. nurse call) that will be installed on the CARE bedhead unit, the necessary supply lines should be drawn taking into consideration the necessary length to reach the terminal point within the unit.

- Planning, execution and testing of the electrical installation must be carried out at the mains by specialist electro-planners and approved specialist electrical companies.
- The electrical installations in the room concerned must meet the applicable national specifications. The number of electrical circuits depends on the design of the bedhead units, specific to the customer. If several electrical circuits are required by the customer, these must be taken into account on the terminal blocks.
- Multi-core connections must be provided with end sleeves for the strands.

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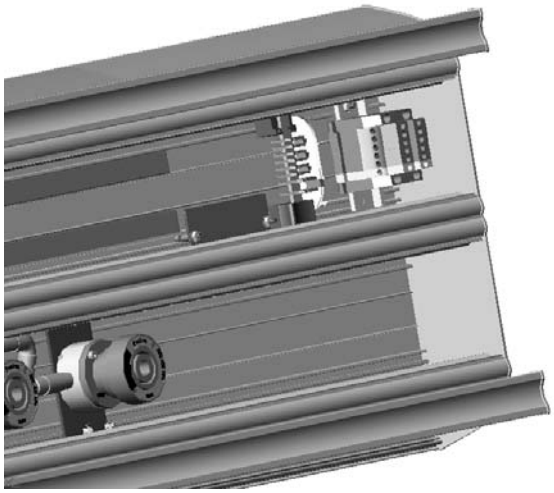
Fig. 2:

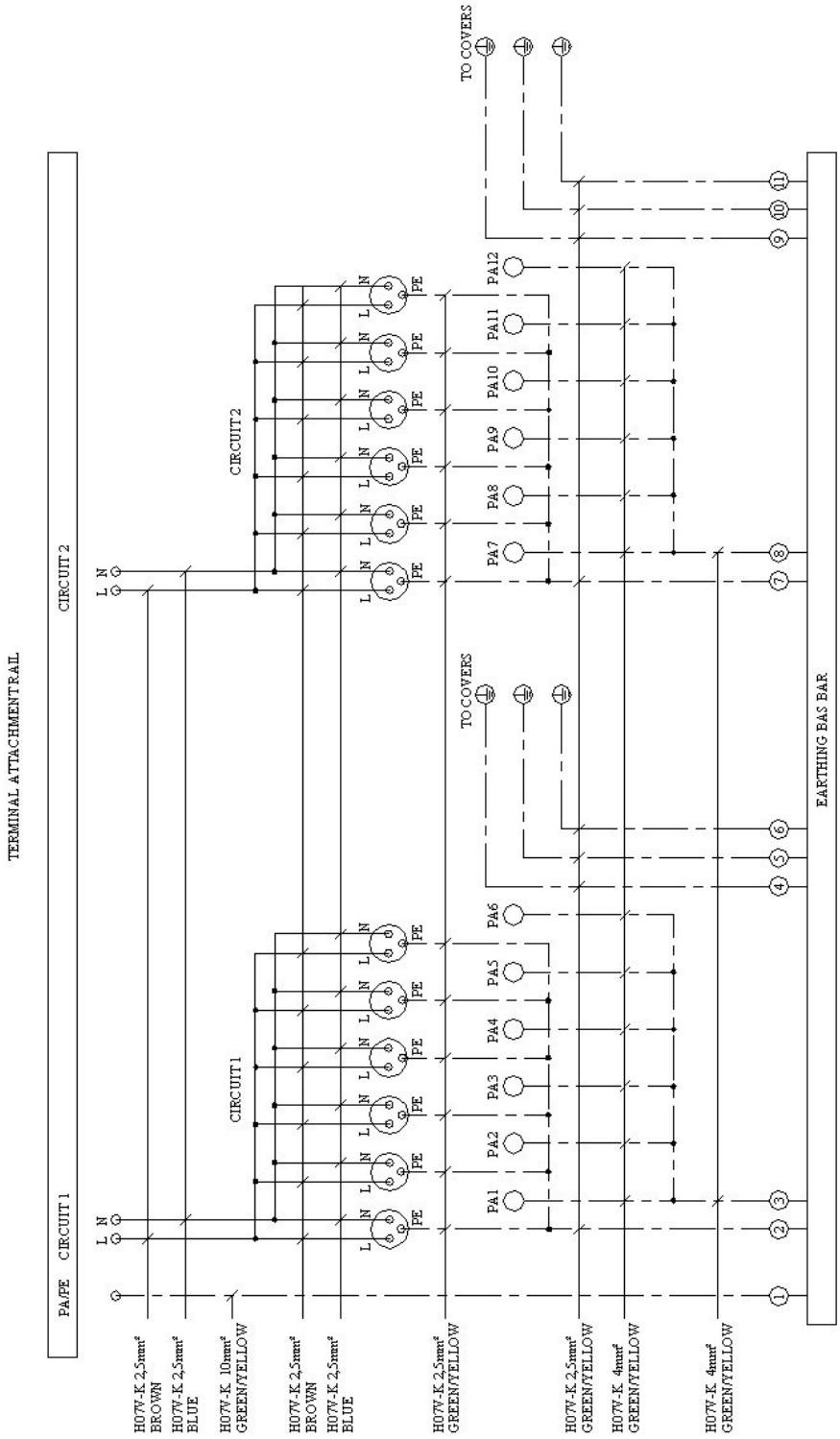


Procedure:
Connect the supply leads to the terminal block and connect the PA / PE earth lead to the PA / PE terminal of the bedhead unit in accordance with the wiring plan.

1) 2,5mm² Supply leads terminal block
2) 4mm² earthing terminal

An approved electrical installer may only carry out the electrical connection of the bedhead unit. Multi-core mains cables must be provided with strand sleeves.

7. Typical Electrical Wiring Diagram



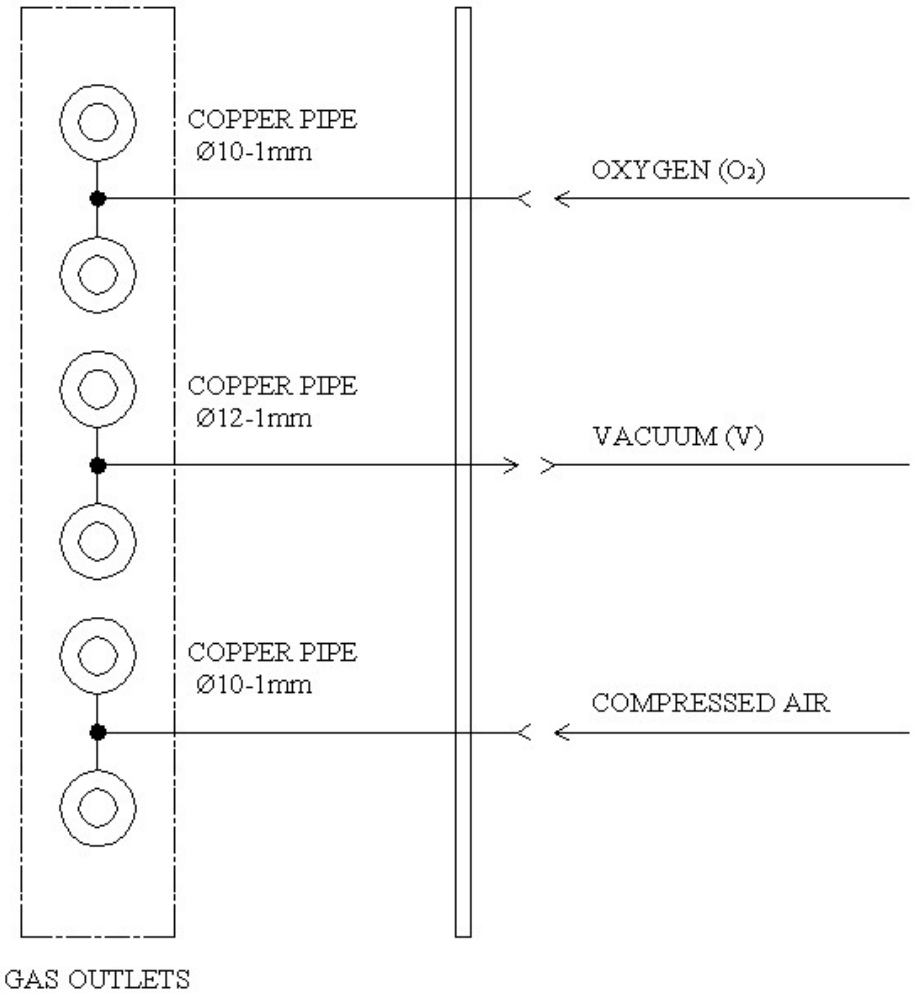
8. Gas Supply

CARE bedhead units are delivered complete with the internal medical gas piping, unless the bedhead unit has been asked to be supplied only with provisions for the medical gas outlets, according to the special request of the end-user. The pipes from the hospital's medical gas system are to be pre-installed and soldered by the central gas supply firm to the piping of the bedhead unit, sufficiently close to the unit, according to the drawings.

- The copper pipe connections each are identified at the end with stick-on labels between the gas outlet on the bedhead unit and the point of connection to the hospital's medical gas supply piping.
- Gas connections must be checked using the EN 737-3 test procedure.

Setting up, testing and operating medical gas supply apparatus must be carried out in accordance EN 737-3 and as described in the manufacturer's instructions. Observe the correct allocation of copper pipes to the corresponding supply lines. The person responsible for the centralized medical gas system must have a test carried out to check the type of gas.

9. Typical Gas Supply Ducts Diagram



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